

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/578,943  
Source: IFWP  
Date Processed by STIC: 5/22/06

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IFWP

## RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,943

TIME: 14:17:29

Input Set : A:\41976.txt

Output Set: N:\CRF4\05222006\J578943.raw

3 <110> APPLICANT: The Regents of the University of Colorado, a Body  
Corporate

4 Kim, Soo Hyun

5 Dinarello, Charles A.

6 Azam, Tania

8 <120> TITLE OF INVENTION: Compositions and Methods for Regulation of Tumor  
Necrosis

9 Factor Alpha

11 <130> FILE REFERENCE: UTC 08870

C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/578,943

C--> 14 <141> CURRENT FILING DATE: 2006-05-08

16 <160> NUMBER OF SEQ ID NOS: 27

18 <170> SOFTWARE: PatentIn version 3.2

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 20

22 <212> TYPE: DNA

23 <213> ORGANISM: Artificial Sequence

25 <220> FEATURE:

26 <223> OTHER INFORMATION: Synthetic

28 <400> SEQUENCE: 1

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33 <211> LENGTH: 21

34 <212> TYPE: DNA

35 <213> ORGANISM: Artificial Sequence

37 <220> FEATURE:

38 <223> OTHER INFORMATION: Synthetic

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45 <211> LENGTH: 396

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47 <213> ORGANISM: Homo sapiens

49 <400> SEQUENCE: 3

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52 gctatagaaa gattttatga taaaatgcaa aatgcagaat caggacgtgg acaggtgatg 120

54 tcgagcctgg cagagctgga ggacgacttc aaagagggct acctggagac agtggcggct 180

56 tattatgagg agcagcacc agagctcact cctctacttg aaaaagaaag agatggatta 240

58 cggtgccgag gcaacagatc ccctgtcccg gatgttgagg atcccgaac cgaggagcct 300

60 ggggagagct tttgtgacaa gtctacgga gcccacggg gggacaagga ggagctgaca 360

62 cccagaagt gctctgaacc ccaatcctca aaatga 396

65 <210> SEQ ID NO: 4

66 <211> LENGTH: 567

67 <212> TYPE: DNA

68 <213> ORGANISM: Homo sapiens

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70 &lt;400&gt; SEQUENCE: 4

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73 gccatagaaa gattttatga taaaatgcaa aatgcagaat caggacgtgg acaggtgatg      120
75 tcgagcctgg cagagctgga ggacgacttc aaagagggct acctggagac agtggcggct      180
77 tattatgagg agcagcaccc agagctcact cctctacttg aaaaagaaag agatggatta      240
79 cggtgccgag gcaacagatc ccctgtcccg gatgttgagg atcccgcac cgaggagcct      300
81 ggggagagct tttgtgacaa ggcatgaga tggttccagg ccatgctgca gcggctgcag      360
83 acctggtggc acgggggttct ggctgggtg aaggagaagg tggtgccct ggtccatgca      420
85 gtgcaggccc tctggaaaca gttccagagt ttctgctgct ctctgtcaga gctcttcagt      480
87 tcctctttcc agtcctacgg agccccacgg ggggacaagg aggagctgac accccagaag      540
89 tgctctgaac cccaatcctc aaaatga

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92 &lt;210&gt; SEQ ID NO: 5

93 &lt;211&gt; LENGTH: 705

94 &lt;212&gt; TYPE: DNA

95 &lt;213&gt; ORGANISM: Homo sapiens

97 &lt;400&gt; SEQUENCE: 5

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102 actgtgggac acctgggacc ctggagggac aaggatccgg ccctttggtg ccaactctgc      180
104 ctctcttcac agcaccaggc catagaaaga ttttatgata aaatgcaaaa tgcagaatca      240
106 ggacgtggac aggtgatgtc gagcctggca gagctggagg acgacttcaa agagggctac      300
108 ctggagacag tggcggttta ttatgaggag cagcaccag agctcactcc tctacttgaa      360
110 aaagaaagag atggattacg gtgccgaggc aacagatccc ctgtcccga tgttgaggat      420
112 cccgcaaccg aggagcctgg ggagagcttt tgtgacaagg tcatgagatg gttccaggcc      480
114 atgctgcagc ggctgcagac ctgggtggc acgggttctgg cctgggtgaa ggagaagggtg      540
116 gtggccctgg tccatgcagt gcaggccctc tggaaacagt tccagagttt ctgctgctct      600
118 ctgtcagagc tcttcatgtc ctctttccag tctacggag cccacgggg ggacaaggag      660
120 gagctgacac cccagaagtg ctctgaacct caatcctcaa aatga

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123 &lt;210&gt; SEQ ID NO: 6

124 &lt;211&gt; LENGTH: 537

125 &lt;212&gt; TYPE: DNA

126 &lt;213&gt; ORGANISM: Homo sapiens

128 &lt;400&gt; SEQUENCE: 6

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129 atgaagaagc tgaaggcccg aatgcaccag gccatagaaa gattttatga taaaatgcaa      60
131 aatgcagaat caggacgtgg acaggtgatg tcgagcctgg cagagctgga ggacgacttc      120
133 aaagagggct acctggagac agtggcggct tattatgagg agcagcaccc agagctcact      180
135 cctctacttg aaaaagaaag agatggatta cggtgccgag gcaacagatc ccctgtcccg      240
137 gatgttgagg atcccgcac cgaggagcct ggggagagct tttgtgacaa ggcatgaga      300
139 tggttccagg ccatgctgca gcggctgcag acctggtggc acgggggttct ggctgggtg      360
141 aaggagaagg tggtgccct ggtccatgca gtgcaggccc tctggaaaca gttccagagt      420
143 ttctgctgct ctctgtcaga gctcttcagt tcctctttcc agtcctacgg agccccacgg      480
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148 &lt;210&gt; SEQ ID NO: 7

149 &lt;211&gt; LENGTH: 131

150 &lt;212&gt; TYPE: PRT

151 &lt;213&gt; ORGANISM: Homo sapiens

153 &lt;400&gt; SEQUENCE: 7

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155 Met Cys Phe Pro Lys Val Leu Ser Asp Asp Met Lys Lys Leu Lys Ala
156 1          5          10          15

```

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159 Arg Met His Gln Ala Ile Glu Arg Phe Tyr Asp Lys Met Gln Asn Ala
160          20          25          30
163 Glu Ser Gly Arg Gly Gln Val Met Ser Ser Leu Ala Glu Leu Glu Asp
164          35          40          45
167 Asp Phe Lys Glu Gly Tyr Leu Glu Thr Val Ala Ala Tyr Tyr Glu Glu
168          50          55          60
171 Gln His Pro Glu Leu Thr Pro Leu Leu Glu Lys Glu Arg Asp Gly Leu
172 65          70          75          80
175 Arg Cys Arg Gly Asn Arg Ser Pro Val Pro Asp Val Glu Asp Pro Ala
176          85          90          95
179 Thr Glu Glu Pro Gly Glu Ser Phe Cys Asp Lys Ser Tyr Gly Ala Pro
180          100         105         110
183 Arg Gly Asp Lys Glu Glu Leu Thr Pro Gln Lys Cys Ser Glu Pro Gln
184          115         120         125
187 Ser Ser Lys
188          130
191 <210> SEQ ID NO: 8
192 <211> LENGTH: 188
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 8
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199 1          5          10          15
202 Arg Met His Gln Ala Ile Glu Arg Phe Tyr Asp Lys Met Gln Asn Ala
203          20          25          30
206 Glu Ser Gly Arg Gly Gln Val Met Ser Ser Leu Ala Glu Leu Glu Asp
207          35          40          45
210 Asp Phe Lys Glu Gly Tyr Leu Glu Thr Val Ala Ala Tyr Tyr Glu Glu
211          50          55          60
214 Gln His Pro Glu Leu Thr Pro Leu Leu Glu Lys Glu Arg Asp Gly Leu
215 65          70          75          80
218 Arg Cys Arg Gly Asn Arg Ser Pro Val Pro Asp Val Glu Asp Pro Ala
219          85          90          95
222 Thr Glu Glu Pro Gly Glu Ser Phe Cys Asp Lys Val Met Arg Trp Phe
223          100         105         110
226 Gln Ala Met Leu Gln Arg Leu Gln Thr Trp Trp His Gly Val Leu Ala
227          115         120         125
230 Trp Val Lys Glu Lys Val Val Ala Leu Val His Ala Val Gln Ala Leu
231          130         135         140
234 Trp Lys Gln Phe Gln Ser Phe Cys Cys Ser Leu Ser Glu Leu Phe Met
235 145         150         155         160
238 Ser Ser Phe Gln Ser Tyr Gly Ala Pro Arg Gly Asp Lys Glu Glu Leu
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242 Thr Pro Gln Lys Cys Ser Glu Pro Gln Ser Ser Lys
243          180         185
246 <210> SEQ ID NO: 9
247 <211> LENGTH: 234
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens

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Input Set : A:\41976.txt

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251 &lt;400&gt; SEQUENCE: 9

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253 Met Cys Phe Pro Lys Val Leu Ser Asp Asp Met Lys Lys Leu Lys Ala
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257 Arg Met Val Met Leu Leu Pro Thr Ser Ala Gln Gly Leu Gly Ala Trp
258          20          25          30
261 Val Ser Ala Cys Asp Thr Glu Asp Thr Val Gly His Leu Gly Pro Trp
262          35          40          45
265 Arg Asp Lys Asp Pro Ala Leu Trp Cys Gln Leu Cys Leu Ser Ser Gln
266          50          55          60
269 His Gln Ala Ile Glu Arg Phe Tyr Asp Lys Met Gln Asn Ala Glu Ser
270 65          70          75          80
273 Gly Arg Gly Gln Val Met Ser Ser Leu Ala Glu Leu Glu Asp Asp Phe
274          85          90          95
277 Lys Glu Gly Tyr Leu Glu Thr Val Ala Ala Tyr Tyr Glu Glu Gln His
278          100         105         110
281 Pro Glu Leu Thr Pro Leu Leu Glu Lys Glu Arg Asp Gly Leu Arg Cys
282          115         120         125
285 Arg Gly Asn Arg Ser Pro Val Pro Asp Val Glu Asp Pro Ala Thr Glu
286          130         135         140
289 Glu Pro Gly Glu Ser Phe Cys Asp Lys Val Met Arg Trp Phe Gln Ala
290 145         150         155         160
293 Met Leu Gln Arg Leu Gln Thr Trp Trp His Gly Val Leu Ala Trp Val
294          165         170         175
297 Lys Glu Lys Val Val Ala Leu Val His Ala Val Gln Ala Leu Trp Lys
298          180         185         190
301 Gln Phe Gln Ser Phe Cys Cys Ser Leu Ser Glu Leu Phe Met Ser Ser
302          195         200         205
305 Phe Gln Ser Tyr Gly Ala Pro Arg Gly Asp Lys Glu Glu Leu Thr Pro
306          210         215         220
309 Gln Lys Cys Ser Glu Pro Gln Ser Ser Lys
310 225         230

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313 &lt;210&gt; SEQ ID NO: 10

314 &lt;211&gt; LENGTH: 178

315 &lt;212&gt; TYPE: PRT

316 &lt;213&gt; ORGANISM: Homo sapiens

318 &lt;400&gt; SEQUENCE: 10

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320 Met Lys Lys Leu Lys Ala Arg Met His Gln Ala Ile Glu Arg Phe Tyr
321 1          5          10          15
324 Asp Lys Met Gln Asn Ala Glu Ser Gly Arg Gly Gln Val Met Ser Ser
325          20          25          30
328 Leu Ala Glu Leu Glu Asp Asp Phe Lys Glu Gly Tyr Leu Glu Thr Val
329          35          40          45
332 Ala Ala Tyr Tyr Glu Glu Gln His Pro Glu Leu Thr Pro Leu Leu Glu
333          50          55          60
336 Lys Glu Arg Asp Gly Leu Arg Cys Arg Gly Asn Arg Ser Pro Val Pro
337 65          70          75          80
340 Asp Val Glu Asp Pro Ala Thr Glu Glu Pro Gly Glu Ser Phe Cys Asp
341          85          90          95
344 Lys Val Met Arg Trp Phe Gln Ala Met Leu Gln Arg Leu Gln Thr Trp

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345          100          105          110
348 Trp His Gly Val Leu Ala Trp Val Lys Glu Lys Val Val Ala Leu Val
349          115          120          125
352 His Ala Val Gln Ala Leu Trp Lys Gln Phe Gln Ser Phe Cys Cys Ser
353          130          135          140
356 Leu Ser Glu Leu Phe Met Ser Ser Phe Gln Ser Tyr Gly Ala Pro Arg
357 145          150          155          160
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361          165          170          175
364 Ser Lys
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369 <211> LENGTH: 5000
370 <212> TYPE: DNA
371 <213> ORGANISM: Homo sapiens
373 <400> SEQUENCE: 11
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376 gtcacaccca ggcagaacgt gatgaagatg aagatggcca tctacaaggg caggagaaac      120
378 ctgaacagaa tcccagctcc gggccctcag aaggacccca cgtgcccac attgaccttg      180
380 gacctccagc ctgcagatcg tgaggggaaga gacgtcttcg acttagggcc ccttgctcgtg      240
382 gtacttcctt agtttggccc caggaaacca tcccaaaggc aagggcgtgg ttgtgctcag      300
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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date